



May 27, 2008

Charles L.A. Terreni
Chief Clerk and Administrator
South Carolina Public Service Commission
Post Office Drawer 11649
Columbia, South Carolina 29211

Re: Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.
Power Plant Performance Report (April 2008)
Docket No. 2006-224-E

Dear Mr. Terreni:

Enclosed is the Power Plant Performance Report for Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc. for the month of April 2008.

Sincerely,

/s/

Len S. Anthony, General Counsel
Progress Energy Carolinas, Inc.

LSA/dhs
Enclosures
45612

c: John Flitter (ORS)

April 2008

The following units had no off-line outages during the month of April:

Brunswick Unit 2

Harris Unit 1

Robinson Unit 2

Mayo Unit 1

Roxboro Unit 2

Roxboro Unit 4

Brunswick Unit 1

Full Scheduled Outage

- A. Duration: The unit was taken out of service at 1:41 on March 15, and was returned to service at 14:35 on April 29, a duration of 1,092 hours and 54 minutes. The unit was offline for 686 hours and 35 minutes during the month of April.
- B. Cause: Scheduled Refueling Outage
- C. Explanation: The unit was taken out of service for a scheduled refueling outage. In addition to refueling, required maintenance and inspections were carried out during this outage. The outage was extended approximately 4.5 days beyond the original schedule due to discovery items that expanded the work scope on the Conventional Service Water System, and emergent work to repair leaks identified on the Control Rod Drive Hydraulic Control Units.
- D. Corrective Action: Planned outage activities, including refueling, inspections, and maintenance, were completed and the unit was returned to service.

Roxboro Unit 3

Full Scheduled Outage

- A. Duration: The unit was taken out of service at 1:16 on April 19, and remained offline through the end of the month. The unit was offline for 286 hours and 44 minutes during April.
- B. Cause: Boiler Inspection and Installation of Environmental Modifications
- C. Explanation: The unit was taken offline for planned boiler inspection and installation of the flue gas desulfurization system.
- D. Corrective Action: Planned maintenance and outage activities were in progress at the end of April.

	Month of April 2008		Twelve Month Summary		See Notes*
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MDC	938 MW		938 MW		1
Period Hours	720 HOURS		8,784 HOURS		
Net Generation	7,406 MWH		6,898,012 MWH		2
Capacity Factor	1.10 %		83.72 %		
Equivalent Availability	1.47 %		82.49 %		
Output Factor	23.63 %		100.14 %		
Heat Rate	842 BTU/KWH		10,390 BTU/KWH		
	MWH	% of Possible	MWH	% of Possible	
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Full Scheduled	644,015	95.36	1,351,299	16.40	3
Partial Scheduled	21,454	3.18	75,361	0.91	4
Full Forced	0	0.00	0	0.00	5
Partial Forced	2,485	0.37	45,719	0.55	6
Economic Dispatch	0	0.00	31	0.00	7
Possible MWH	675,360		8,239,392		8

* See 'Notes for Nuclear Units' filed with the January 2008 report.

** Gross of Power Agency

	Month of April 2008		Twelve Month Summary		See Notes*
MDC	937 MW		937 MW		1
Period Hours	720 HOURS		8,784 HOURS		
Net Generation	676,182 MWH		8,196,854 MWH		2
Capacity Factor	100.23 %		99.59 %		
Equivalent Availability	99.11 %		98.59 %		
Output Factor	100.23 %		100.08 %		
Heat Rate	10,548 BTU/KWH		10,546 BTU/KWH		
	MWH	% of Possible	MWH	% of Possible	
	-----	-----	-----	-----	
Full Scheduled	0	0.00	0	0.00	3
Partial Scheduled	6,020	0.89	49,242	0.60	4
Full Forced	0	0.00	40,135	0.49	5
Partial Forced	0	0.00	28,258	0.34	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	674,640		8,230,608		8

* See 'Notes for Nuclear Units' filed with the January 2008 report.

** Gross of Power Agency

	Month of April 2008		Twelve Month Summary		See Notes*
MDC	900 MW		900 MW		1
Period Hours	720 HOURS		8,784 HOURS		
Net Generation	661,179 MWH		7,420,702 MWH		2
Capacity Factor	102.03 %		93.87 %		
Equivalent Availability	100.00 %		92.95 %		
Output Factor	102.03 %		100.54 %		
Heat Rate	10,776 BTU/KWH		10,848 BTU/KWH		
	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	523,410	6.62	3
Partial Scheduled	0	0.00	8,585	0.11	4
Full Forced	0	0.00	1,320	0.02	5
Partial Forced	0	0.00	66,157	0.84	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	648,000		7,905,600		8

* See 'Notes for Nuclear Units' filed with the January 2008 report.

** Gross of Power Agency

	Month of April 2008		Twelve Month Summary		See Notes*
MDC	710 MW		710 MW		1
Period Hours	720 HOURS		8,784 HOURS		
Net Generation	541,202 MWH		6,214,638 MWH		2
Capacity Factor	105.87 %		99.65 %		
Equivalent Availability	100.00 %		95.18 %		
Output Factor	105.87 %		103.88 %		
Heat Rate	10,600 BTU/KWH		10,766 BTU/KWH		
	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	219,626	3.52	3
Partial Scheduled	0	0.00	25,831	0.41	4
Full Forced	0	0.00	34,707	0.56	5
Partial Forced	0	0.00	20,278	0.33	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	511,200		6,236,640		8

* See 'Notes for Nuclear Units' filed with the January 2008 report.

	Month of April 2008		Twelve Month Summary		See Notes*
MDC	742 MW		741 MW		1
Period Hours	720 HOURS		8,784 HOURS		
Net Generation	358,092 MWH		4,748,767 MWH		2
Capacity Factor	67.03 %		72.86 %		
Equivalent Availability	100.00 %		96.33 %		
Output Factor	67.03 %		74.14 %		
Heat Rate	10,474 BTU/KWH		10,407 BTU/KWH		
	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	36,976	0.57	3
Partial Scheduled	0	0.00	121,167	1.86	4
Full Forced	0	0.00	32,908	0.51	5
Partial Forced	0	0.00	48,013	0.74	6
Economic Dispatch	176,148	32.97	1,524,016	23.40	7
Possible MWH	534,240		6,511,872		8

* See 'Notes for Fossil Units' filed with the January 2008 report.

** Gross of Power Agency

	Month of April 2008		Twelve Month Summary		See Notes*
MDC	671 MW		650 MW		1
Period Hours	720 HOURS		8,784 HOURS		
Net Generation	428,358 MWH		5,056,265 MWH		2
Capacity Factor	88.66 %		88.60 %		
Equivalent Availability	100.00 %		94.48 %		
Output Factor	88.66 %		92.76 %		
Heat Rate	9,155 BTU/KWH		9,112 BTU/KWH		
	MWH	% of Possible	MWH	% of Possible	
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Full Scheduled	0	0.00	179,731	3.15	3
Partial Scheduled	0	0.00	42,006	0.74	4
Full Forced	0	0.00	75,071	1.32	5
Partial Forced	0	0.00	16,893	0.30	6
Economic Dispatch	54,762	11.34	348,415	6.11	7
Possible MWH	483,120		5,706,672		8

* See 'Notes for Fossil Units' filed with the January 2008 report.

	Month of April 2008		Twelve Month Summary		See Notes*
MDC	705 MW		705 MW		1
Period Hours	720 HOURS		8,784 HOURS		
Net Generation	223,323 MWH		4,365,654 MWH		2
Capacity Factor	44.00 %		70.50 %		
Equivalent Availability	58.46 %		91.06 %		
Output Factor	73.11 %		74.87 %		
Heat Rate	11,076 BTU/KWH		11,152 BTU/KWH		
	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	202,147	39.82	332,020	5.36	3
Partial Scheduled	0	0.00	112,374	1.81	4
Full Forced	0	0.00	4,394	0.07	5
Partial Forced	8,697	1.71	104,885	1.69	6
Economic Dispatch	73,433	14.47	1,273,393	20.56	7
Possible MWH	507,600		6,192,720		8

* See 'Notes for Fossil Units' filed with the January 2008 report.

	Month of April 2008		Twelve Month Summary		See Notes*
MDC	698 MW		698 MW		1
Period Hours	720 HOURS		8,784 HOURS		
Net Generation	389,079 MWH		3,847,008 MWH		2
Capacity Factor	77.42 %		62.74 %		
Equivalent Availability	100.00 %		83.86 %		
Output Factor	77.42 %		72.05 %		
Heat Rate	10,323 BTU/KWH		10,545 BTU/KWH		
	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	765,705	12.49	3
Partial Scheduled	0	0.00	138,501	2.26	4
Full Forced	0	0.00	21,813	0.36	5
Partial Forced	0	0.00	63,572	1.04	6
Economic Dispatch	113,481	22.58	1,292,363	21.08	7
Possible MWH	502,560		6,131,232		8

* See 'Notes for Fossil Units' filed with the January 2008 report.

** Gross of Power Agency

Plant	Unit	Current MW Rating	January 2007 - December 2007	April 2008	January 2008 - April 2008
Asheville	1	191	63.64	82.23	82.78
Asheville	2	185	73.17	60.77	74.83
Cape Fear	5	144	78.67	76.86	75.52
Cape Fear	6	172	72.38	70.13	57.05
Lee	1	74	62.15	39.84	65.01
Lee	2	77	62.47	35.80	52.30
Lee	3	248	66.38	69.53	18.06
Mayo	1	742	72.10	67.03	65.32
Robinson	1	176	74.63	72.46	78.60
Roxboro	1	369	78.01	78.57	83.17
Roxboro	2	671	80.06	88.66	87.13
Roxboro	3	705	74.37	44.00	63.38
Roxboro	4	698	62.40	77.42	72.07
Sutton	1	93	56.26	59.44	56.25
Sutton	2	102	63.19	77.73	72.63
Sutton	3	403	55.53	69.90	65.66
Weatherspoon	1	48	53.86	52.37	52.10
Weatherspoon	2	49	55.68	35.42	49.74
Weatherspoon	3	76	68.70	68.14	75.28
Fossil System Total		5,223	69.82	68.95	68.90
Brunswick	1	938	95.92	1.10	60.87
Brunswick	2	937	86.99	100.23	98.61
Harris	1	900	93.90	102.03	102.64
Robinson Nuclear	2	710	92.26	105.87	106.08
Nuclear System Total		3,485	92.25	75.16	91.01
Total System		8,708	78.79	71.43	77.75

Amended SC Fuel Rule
Related to Nuclear Operations

There shall be a rebuttable presumption that an electrical utility made every reasonable effort to minimize cost associated with the operation of its nuclear generation system if the utility achieved a net capacity factor of $\geq 92.5\%$ during the 12 month period under review. For the test period April 1, 2008 through April 30, 2008, actual period to date performance is summarized below:

Period to Date: April 1, 2008 to April 30, 2008

Nuclear System Capacity Factor Calculation (Based on net generation)

A.. Nuclear system actual generation for SCPSC test period	A =	1,885,969 MWH
B. Total number of hours during SCPSC test period	B =	720 hours
C. Nuclear system MDC during SCPSC test period (see page 2)	C =	3,485 MW
D. Reasonable nuclear system reductions (see page 2)	D =	671,489 MWH
A. SC Fuel Case nuclear system capacity factor: $[(A + D) / (B + C)] * 100 =$	101.9%	

NOTE:

If Line Item E $> 92.5\%$, presumption of utility's minimum cost of operation.

If Line Item E $< 92.5\%$, utility has burden of proof of reasonable operations.

Amended SC Fuel Rule
Nuclear System Capacity Factor Calculation
Reasonable Nuclear System Reductions
Period to Date: April 1, 2008 to April 30, 2008

Nuclear Unit Name and Designation	BNP Unit # 1	BNP Unit # 2	HNP Unit # 1	RNP Unit # 2	Nuclear System
Unit MDC	938 MW	937 MW	900 MW	710 MW	3,485 MW
Reasonable refueling outage time (MWH)	644,015	0	0	0	
Reasonable maintenance, repair, and equipment replacement outage time (MWH)	0	378	0	0	
Reasonable coast down power reductions (MWH)	0	0	0	0	
Reasonable power ascension power reductions (MWH)	21,454	0	0	0	
Prudent NRC required testing outages (MWH)	0	5,642	0	0	
SCPSC identified outages not directly under utility control (MWH)	0	0	0	0	
Acts of Nature reductions (MWH)	0	0	0	0	
Reasonable nuclear reduction due to low system load (MWH)	0	0	0	0	
Unit total excluded MWH	665,469	6,020	0	0	
Total reasonable outage time exclusions [carry to Page 1, Line D]					671,489